



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/788,510
Filing Date	February 27, 2004
First Named Inventor	CHISHTI, MUHAMMAD
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-004920US

Sheet

1

of

4

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JW	AA	US-3,660,900		05/1972	Andrews	
	AB	US-3,860,803		01/1975	Levine	
	AC	US-4,504,225		03/1985	Yoshii	
	AD	US-4,505,673		03/1985	Yoshii	
	AE	US-4,755,139		07/1988	Abbate et al.	
	AF	US-4,793,803		12/1988	Martz	
	AG	US-4,798,534		01/1989	Breads	
	AH	US-4,836,778		06/1989	Baumrind et al.	
	AI	US-4,856,991		08/1989	Breads et al.	
	AJ	US-4,936,862		07/1990	Walker et al.	
	AK	US-5,011,405		04/1991	Lemchen	
	AL	US-5,017,133		05/1991	Miura	
	AM	US-5,035,613		07/1991	Breads et al.	
	AN	US-5,055,039		10/1991	Abbate et al.	
	AO	US-5,059,118		10/1991	Breads et al.	
	AP	US-5,139,419		08/1992	Andreiko et al.	
	AQ	US-5,186,623		02/1993	Breads et al.	
	AR	US-5,273,429		12/1993	Rekow	
	AS	US-5,338,198		08/1994	Wu et al.	
	AT	US-5,340,309		08/1994	Robertson	
	AU	US-5,342,202		08/1994	Deshayes	
	AV	US-5,368,478		11/1994	Andreiko et al.	
	AW	US-5,382,164		01/1995	Stern	
	AX	US-5,395,238		03/1995	Andreiko et al.	
	AY	US-5,431,562		07/1995	Andreiko et al.	
	AZ	US-5,447,432		09/1995	Andreiko et al.	
	BA	US-5,452,219		09/1995	Dehoff et al.	
	BB	US-5,454,717		10/1995	Andreiko et al.	
	BC	US-5,456,600		10/1995	Andreiko et al.	
	BD	US-5,474,448		12/1995	Andreiko et al.	
	BE	US-5,533,895		07/1996	Andreiko et al.	
	BF	US-5,542,842		08/1996	Andreiko et al.	
	BG	US-5,549,476		08/1996	Stern	
	BH	US-5,587,912		12/1996	Andersson et al.	
	BI	US-5,605,459		02/1997	Kuroda et al.	
	BJ	US-5,607,305		03/1997	Andersson et al.	
	BK	US-5,645,421		07/1997	Slootsky	
	BL	US-5,683,243		11/1997	Andreiko et al.	
	BM	US-5,880,962		03/1999	Andersson et al.	
	BN	US-6,152,731		11/2000	Jordan et al.	
JW	BO	US-6,217,334		04/2001	Hultgren	

Examiner
Signature

John Wilson

Date
Considered

9/13/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60190385 v1

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/788,510	
			Filing Date	February 27, 2004	
			First Named Inventor	CHISHTI, MUHAMMAD	
			Art Unit	Unassigned	
Examiner Name	Unassigned				
Sheet	2	of	4	Attorney Docket Number	018563-004920US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
<i>ga</i>	BP	WO	94/10935		05/1994			<input type="checkbox"/>
<i>ga</i>	BQ	WO	98/32394		07/1998			<input type="checkbox"/>
<i>ga</i>	BR	FR	2 369 828		06/1978			<input type="checkbox"/>
								<input type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
-----------------------	--------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60190385 v1

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete If Known		
			Application Number	10/788,510	
			Filing Date	February 27, 2004	
			First Named Inventor	CHISHTI, MUHAMMAD	
			Art Unit	Unassigned	
Examiner Name	Unassigned				
Sheet	3	of	4	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BS	BioStar Operation & Training Manual, Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York, 14150-5890, 20 pgs.	
ga	BT	Chiappone, "constructing the gnathologic setup and positioner," J. Clin. Orthod., 1980, 14:121-133.	
	BU	Cottingham, "Gnathologic clear plastic positioner," Am. J. Orthod. 1969, 55:23-31	
	BV	Cureton, "Correcting malaligned mandibular incisors with removal retainers," J. Clin. Orthod. 1996, 30:390-395.	
	BW	Doyle, "Digital dentistry" Computer Graphics World, October 2000, pp. 50-52, 54.	
	BX	Elsasser, "Some observations on the history and uses of the Kesling positioner," Am. J. Orthod. 1950, 36:368-374.	
	BY	Kamada et al., "Case reports on tooth positioners with LTV vinyl silicone rubber and some case reports," J. Nihon University School of Dentistry 1982, 24(1):1-27.	
	BZ	Kesling, "Coordinating the predetermined pattern and tooth positioner with conventional treatment," Am. J. Orthod. Oral. Surg. 1946, 32:285-293.	
	CA	Kesling, "The philosophy of the tooth positioning appliance," Am. J. Orthod. Oral. Surg. 1945, 31(6):297-304.	
	CB	Kleeman et al., "The speed positioner," J. Clin. Orthod. 1996, 30:673-680.	
	CC	Kuroda et al., "Three-dimensional dental cast analyzing system using laser scanning," Am. J. Orthod. Dentofac. Orthop. 1996, 110:365-369.	
	CD	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.) -1 Approach to the proposal of D.P. and transparent silicone rubber," 1980, 452:61-74.	
ga	CE	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-11, Practice application and construction of D.P. and transparent silicone rubber," 1980, 454:107-130.	
	CF	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-111, Case reports of reversed occlusion," 457:146-164.	
ga	CG	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)- Case reports of reversed occlusion," 1980, 458:112-129.	
ga	CH	Nishiyama et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber," J. Nihon Univ. School of Dentistry, 1997, 19(2):93-102.	

Examiner Signature	<i>John Walker</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------


* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/788,510		
		Filing Date	February 27, 2004		
		First Named Inventor	CHISHTI, MUHAMMAD		
		Art Unit	Unassigned		
Examiner Name	Unassigned				
Sheet	4	of	4	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
9w	CI	Raintree Essix & ARS Materials, Inc., Raintree Essix, Technical Magazine Table of contents and Essix Appliances, http://www.essix.com/magazine/default.html 08/13/97, 7 pgs.	
	CJ	Redmond et al., "Clinical implications of digital orthodontics" Am. J. Orthodont. and Dentofacial Orthopaedics, 2000, 117(2):240-242.	
	CK	Shilliday, "Minimizing finishing problem with the mint-positioner," Am. J. Orthod. 1971, 59:596-599.	
	CL	Warunek et al., "Physical and mechanical properties of elastomers in orthodontic positioners," Am. J. Orthod. Dentofac. Orthop. 1989, 95:388-400.	
9w	CM	Wells, "Application of the positioner appliance in orthodontic treatment," Am. J. Orthodont. 1970, 58:351-366.	

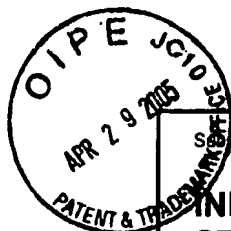
60190385 v1

Examiner Signature		Date Considered	9/13/07
--------------------	---	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

60190385 v1



PTO/SB/08A (08-03)

Substitute for form 1449A/RTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
Application Number		10/788,510			
Filing Date		February 27, 2004			
First Named Inventor		CHISHTI, MUHAMMAD			
Art Unit		3732			
Examiner Name		WILSON, JOHN J			
Attorney Docket Number		018563-004920US			
Sheet	1	of	9		


U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

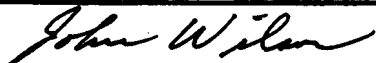
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
[Signature]	1	EP	0091876	A1	10-19-1983	Duret		<input checked="" type="checkbox"/>
	2	EP	0299490	A2	01-18-1989	Steinbichler et al.		<input checked="" type="checkbox"/>
	3	EP	0376873	A2	07-04-1990	Shafir		<input type="checkbox"/>
	4	EP	0490848	A2	06-17-1992	Nobelpharma AB.		<input type="checkbox"/>
	5	EP	0541500	A1	06-12-1998	Nobelpharma AB		<input type="checkbox"/>
	6	EP	0731673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
	7	EP	0774933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
	8	FR	2652256	A1	03-29-1991	Jourda		<input checked="" type="checkbox"/>
	9	FR	2369828	A1	06-02-1978	Suyehiro		<input checked="" type="checkbox"/>
	10	WO	90/08512	A1	08-09-1990	Dolphin Imaging Systems		<input type="checkbox"/>
	11	WO	91/04713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
	12	WO	94/10935	A1	05-26-1994	Ormco Corporation		<input type="checkbox"/>
	13	WO	98/44865	A1	10-15-1998	Nobel Biocare		<input type="checkbox"/>
	14	WO	98/58596	A1	12-30-1998	Align Technology		<input type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	2	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	15	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," <i>JCO</i> (July 1990), pp. 402-407.	
	16	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.	
	17	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," IADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriot, <i>Journal of Dental Research</i> , Vol. 58, January, 1979, Special Issue A, p. 221.	
	18	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
	19	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 1 page total..	
	20	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	21	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontological Scandinavia</i> , vol. 47 (1989), pp. 279-286.	
	22	BAUMRIND et al., "A Stereophotogrammetric System for the Detection of Prosthesis Loosening in Total Hip Arthroplasty", NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978, SPIE Vol. 166, pp. 112-123.	
	23	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
	24	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. pp.142-166.	
	25	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
	26	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	
	27	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report", Abstracts of Papers, <i>Journal of Dental Research</i> ; Vol. 67, Special Issue March 9-13, 1988, p.169.	
	28	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	

Examiner Signature		Date Considered	9/13/07
--------------------	---	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	3	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
9m	29	BIGGERSTAFF et al., "Computerized Analysis of Occlusion In The Postcanine Dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.		
	30	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.		
	31	BOYD et al., "Three Dimensional Diagnosis and Orthodontic Treatment of Complex Malocclusions With the Invisalign Appliance," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 274-293.		
	32	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, p. 208		
	33	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter," <i>J Dent Res.</i> , Vol. 65, No. 3, March 1986, pp. 428-431.		
	34	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts 1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.		
	35	BURSTONE et al., "Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination," <i>Am. Journal of Orthodontics</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.		
	36	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.		
	37	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.		
	38	CHIAPPONE, "Constructing the Gnathologic Setup And Positioner" <i>J. Clin. Orthod.</i> , 14:121-133, 1980.		
	39	COTTINGHAM, "Gnathologic Clear Plastic Positioner" <i>Am. J. Orthod.</i> , Vol. 55, No. 1, (January 1969), pp. 23-31.		
	40	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operatory," <i>Canadian Dental Journal</i> , vol. 54(9), (1988), pp. 661-666.		
	41	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.		
9m	42	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.		

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/RTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	4	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
gn	43	CURETON, "Correcting Malaligned Mandibular Incisors With Removable Retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
	44	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
	45	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	
	46	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" <i>DSC Production AG</i> , Jan. 1992, pp. 1-7.	
	47	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.	
gn	48	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 2 pages total.	
	49	DentTrac Corporation, Dentrac document, pp. 4-13.	
gn	50	DURET et al, "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
	51	DURET et al., "CAD/CAM Imaging in Dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	
	52	DURET, "Vers une prothese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.	
	53	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , Jan. 1986., 18 pages total.	
	54	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.	
	55	ELSASSER, "Some Observations on the History and Uses of the Kesling Positioner" <i>Am. J. Orthod.</i> , Vol. 36, No. 5, (May 1950) pp. 368-374.	
	56	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
	57	FELTON et al. "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
gn	58	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," "Abstract of Papers, <i>Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	5	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	59	GIM-ALBENT Deutschland, "Das DUX System: Die Technik" 2 pages total.	
Jan	60	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, <i>Journal of Oral and Maxillofacial Surgery</i> , Vol. 48, no. 8, Supp. 1, August 1990, p. 5-6.	
	61	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	
	62	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 70, April 17-21, 1991, p. 528.	
	63	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.	
	64	HUCKINS, "CAD-CAM Generated-Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.	
	65	JCO Interviews, "Craig Andreiko, DDS, MS on the Elan and Orthos Systems", <i>JCO</i> , (Aug. 1994), pp. 459-468.	
	66	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," <i>JCO</i> , (Dec. 1983), pp. 819-831.	
	67	JERROLD, "The Problem, Electronic Data Transmission and the Law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.	
	68	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.	
	69	KAMADA et al., "Case Reports on Tooth Positioners Using LTV Vinyl Silicone Rubber" <i>J. Nihon University School of Dentistry</i> , 26(1):11-29, 1984.	
	70	KAMADA et al., "Construction of Tooth Positioners With LTV Vinyl Silicone Rubber and Some Case Reports" <i>J. Nihon University School of Dentistry</i> , 24(1):1-27, 1982.	
	71	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.	
	72	KESLING, "Coordinating the Predetermined Pattern and Tooth Positioner With Conventional Treatment" <i>Am. J. Orthod. Oral. Surg.</i> , 32:285-293, 1946.	
Jan	73	KESLING, "The Philosophy of the Tooth Positioning Appliance" <i>Am. J. Orthod. Oral. Surg.</i> , 31(6):297-304, 1945.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/RTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	6	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
9w	74	KLEEMANN et al., "The Speed Positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.	
	75	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 110:365-369, 1996.	
	76	LAURENDEAU et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Transactions on Medical Imaging</i> , Vol. 10, No. 3 (Sept. 1991), pp. 453-461.	
	77	LEINFELDER et al., "A new method for generating ceramic restorations: a CAD-CAM system," <i>Journal Of The American Dental Assoc.</i> , Vol. 118, No. 6 (Jun. 1989), pp. 703-707.	
	78	MANETTI et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983	
	79	MCCANN, Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) pp. 286-294.	
	80	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-578.	
	81	MCNAMARA et al., Chapter 19: Invisible Retainers, <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.	
	82	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 763.	
	83	MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro," <i>Schweizerische Monatsschrift für Zahnmedizin</i> , Vol. 85 (1985), p. 1118-1129.	
	84	NAHOUM, "The Vacuum Formed Dental Contour Appliance" <i>The New York State Dental Journal</i> , 30(9):385-390, Nov. 1964.	
	85	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dentistry Today</i> , (October 1990), pp. 20, 22-23, 54.	
	86	NISHIYAMA et al., "A New Construction Of Tooth Repositioner By LTV Vinyl Silicone Rubber" <i>J. Nihon University School of Dentistry</i> , 19(2):93-102, 1977.	
	87	PINKHAM, "'Foolish' Concept Propels Technology," <i>Dentist</i> , Jan./Feb. 1989, 3 pages total.	
	88	PINKHAM, "Inventor's CAD/CAM may transform dentistry," <i>Dentist</i> , Sept. 1990, 3 pages total.	
9w	89	PONITZ, "Invisible Retainers", <i>Am. J. Orthodontics</i> , Vol. 59, No. 3, March 1971, pp. 266-272.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
-----------------------	--------------------	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	7	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>gn</i>	90	Procera Research Projects, <i>PROCERA Research Projects 1993</i> — Abstract Collection, 1993, pp. 3-24.	
	91	REKOW, "A Review of the Developments in Dental CAD/CAM Systems," (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), <i>Dental Clinics: Prosthodontics and Endodontics</i> , pp.25-33, 1992.	
	92	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>Journal</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.	
	93	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.	
	94	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.	
	95	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
	96	RICHMOND et al., Research Reports, "The Development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , Vol. 13, No. 1, (January 1986) pp. 53-54.	
	97	RICHMOND, "Recording The Dental Cast In Three Dimensions," <i>Am. J. Orthod. Dentofac. Orthop.</i> , Vol. 92, No. 3, (Sept. 1987), pp.199-206.	
	98	RUDGE, "Dental arch analysis: arch form, A review of the literature," <i>European Journal of Orthodontics</i> , Vol. 3, No. 4 (1981), pp.279-284.	
	99	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.	
	100	SHELLHAS et al., "Three-Dimensional Computed Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.	
<i>gn</i>	101	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971	
	102	Siemens, "CEREC - Computer Reconstruction," "High Tech in der Zahnmedizin, 14 page total.	
<i>gn</i>	103	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	
<i>gn</i>	104	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/RTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
				Attorney Docket Number	018563-004920US
Sheet	8	of	9		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JW	105	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 20 pages total.	
	106	U.S. Department of Commerce, National Technical Information Service, "Holodontography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	
	107	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	108	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, Vol. 51, No. 4, p. 1100.	
	109	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	
	110	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.	
	111	VÁRADY et al., "Reverse engineering of geometric models---an introduction. Computer-Aided Design, 29 (4):255-268, 1997.	
	112	WARUNEK et al., "Clinical use of silicone elastomer appliances" <i>JCO</i> , MH (10):694-700, 1989.	
	113	WARUNEK et al., "Physical And Mechanical Properties of Elastomers In Orthodontic Positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:388-400, 1989.	
	114	WELLS, "Application of the Positioner Appliance in Orthodontic Treatment" <i>Am. J. Orthodont.</i> , 58:351-366, 1970.	
	115	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.	
	116	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.	
	117	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, <i>Journal of Oral and Maxillofacial Surgery</i> , Vol. 48, no. 8, Supp. 1, August 1990, p. 5.	
JW	118	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 5, pp. 2051-2053, 1990	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	9	of	9	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>ju</i>	119	YAMAMOTO et al., "Optical Measurement of Dental Cast Profile and Application to Analysis Of Three-Dimensional Tooth Movement in Orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
-----------------------	--------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/788,510
Filing Date	February 27, 2004
First Named Inventor	CHISHTI, MUHAMMAD
Art Unit	3732
Examiner Name	WILSON, JOHN J
Attorney Docket Number	018563-004920US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
JW	1	3,407,500	10-29-1968	Kesling	
	2	3,683,502	08-15-1972	Wallshein.	
	3	3,922,786	12-02-1975	Lavin	
	4	4,253,828	03-03-1981	Coles et al.	
	5	4,324,547	04-13-1982	Arcan et al.	
	6	4,500,294	02-19-1985	Lewis	
	7	4,526,540	07-02-1985	Dellinger	
	8	4,575,330	03-11-1986	Hull	
	9	4,591,341	05-27-1986	Andrews	
	10	4,609,349	09-02-1986	Cain	
	11	4,664,626	05-12-1987	Kesling	
	12	4,676,747	06-30-1987	Kesling	
	13	4,850,865	07-25-1989	Napolitano	
	14	4,877,398	10-31-1989	Kesling	
	15	4,880,380	11-14-1989	Martz	
	16	4,889,238	12-26-1989	Batchelor	
	17	4,890,608	01-02-1990	Steer	
	18	4,935,635	06-19-1990	O'Harra,	
	19	4,941,826	07-17-1990	Loran et al.	
	20	4,983,334	01-08-1991	Adell	
	21	5,125,832	06-30-1992	Kesling	
	22	5,145,364	09-08-1992	Martz et al.	
	23	5,176,517	01-05-1993	Truax	
	24	5,440,326	08-08-1995	Quinn	
	25	5,528,735	06-18-1996	Strasnick et al.	
	26	5,562,448	10-08-1996	Mushabac	
	27	5,621,648	04-15-1997	Crump	
	28	5,645,420	07-08-1997	Bergersen	
	29	5,692,894	12-02-1997	Schwartz et al.	
	30	5,725,376	03-10-1998	Poirier	
	31	5,725,378	03-10-1998	Wang	
	32	5,742,700	04-21-1998	Yoon et al.	
	33	5,799,100	08-25-1998	Clarke et al.	
	34	5,800,174	09-01-1998	Andersson	
	35	5,823,778	10-20-1998	Schmitt et.al.	
	36	5,848,115	12-08-1998	Little et al.	
	37	5,857,853	01-12-1999	van Nifferick et al.	
	38	5,866,058	02-02-1999	Batchelder et al.	
	39	5,879,158	03-09-1999	Doyle et al.	
	40	5,880,961	03-09-1999	Crump	
	41	5,934,288	08-10-1999	Avila et al.	

Examiner
Signature

John Wilson

Date
Considered

9/13/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60564080 v1

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	2	of	4	Attorney Docket Number	018563-004920US

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
ja	42	5,957,686		09-28-1999	Anthony	
	43	5,964,587		10-12-1999	Sato	
	44	5,971,754		10-26-1999	Sondhi et al.	
	45	5,975,893		11-02-1999	Chishti et al.	
	46	6,015,289		01-18-2000	Andreiko et al.	
	47	6,044,309		03-28-2000	Honda	
	48	6,049,743		04-11-2000	Baba	
	49	6,062,861		05-16-2000	Andersson	
	50	6,068,482		05-30-2000	Snow	
	51	6,099,314		08-08-2000	Kopelman et al.	
	52	6,123,544		09-26-2000	Cleary	
	53	6,183,248		02-06-2001	Chishti et al.	
	54	6,190,165		02-20-2001	Andreiko et al.	
	55	6,244,861		06-12-2001	Andreiko et al.	
	56	6,309,215		10-30-2001	Phan et al.	
	57	6,315,553		11-13-2001	Sachdeva et al.	
	58	6,322,359		11-27-2001	Jordan et al.	
	59	6,350,120		02-26-2002	Sachdeva et al.	
	60	6,382,975		05-07-2002	Poirier	
	61	6,398,548		06-04-2002	Muhammad et al.	
	62	6,524,101		02-25-2003	Phan et al.	
	63	6,554,611		04-29-2003	Chishti et al.	
	64	2002/0006597		01-17-2002	Andreiko et al.	
	ja	65	RE 35169		03-05-1996	Lemchen et al.

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ²
		Country Code ³	Number ⁴	Kind Code* (if known)				
ja	66	AU	517102		07-09-1981	Hito Suyehiro		<input type="checkbox"/>
	67	AU	3031677		05-10-1979	Hito Suyehiro		<input type="checkbox"/>
	68	AU	5598894		06-08-1994	Ormco Corp		<input type="checkbox"/>
	69	CA	1121955		04-20-1982	Suyehiro Hito		<input type="checkbox"/>
	70	DE	2749802		05-11-1978	Suyehiro Hito		<input checked="" type="checkbox"/>
	71	DE	69327661		07-20-2000	Ormco Corp		<input checked="" type="checkbox"/>
	72	EP	0667753		08-23-1995	ORMCO CORP		<input type="checkbox"/>
	73	ES	463897		01-01-1980	Hito Suyehiro		<input checked="" type="checkbox"/>
	74	GB	1550777		08-22-1979	Hito Suyehiro		<input type="checkbox"/>
ja	75	JP	04-028359		01-30-1992	Mitsubishi Petrochemical Co		<input checked="" type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
-----------------------	--------------------	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	3	of	4	Attorney Docket Number	018563-004920US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
92	76	JP	53-058191		05-25-1978	Yoshii		<input checked="" type="checkbox"/>
92	77	JP	08-508174		09-03-1996	Ormco Corp		<input checked="" type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	<i>9/13/07</i>
-----------------------	--------------------	--------------------	----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J
Sheet	4	of	4	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	78	ANDREWS, <i>The Six Keys to Optimal Occlusion Straight Wire</i>, Chapter 3, pp 13-24		
ga	79	DENT-X posted at http://www.dent-x.com/DentSim.htm 09/24/98, 6 pages total.		
	80	FÜTTERLING et al., "Automated Finite Element Modeling of a Human Mandible with Dental Implants," WSCG '98 -Conference Program, retrieved from the Internet: << http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf >>, 8 pages total.		
	81	GOTTLEIB et al., "JCO Interviews Dr. James A. McNamara, Jr., on the Frankel Appliance: Part 2: Clinical Management," <i>Journal of Clinical Orthodontics</i> , Vol. 16, No. 6, (June 1982) pp. 390-407		
	82	HOJJATIE et al., "Three-Dimensional Finite Element Analysis of Glass-Ceramic Dental Crowns," <i>J Biomech.</i> (1990) Vol. 23, No. 11, pp.1157-1166.		
	83	KUNII et al., Articulation Simulation for an Intelligent Dental Care System, <i>Displays</i> (1994) 15:181-188.		
ga	84	MÖRMANN et al., "Marginale Adaptation von adhäsiven Porzellaninlays in vitro," Separatdruck aus: <i>Schweiz. Mschr. Zahnmed.</i> 95: 1118-1129, 1985.		
	85	TRU-TAIN ORTHODONTIC & DENTAL SUPPLIES, Product Brochure, Rochester, Minnesota 55902, 16 pages total.		
ga	86	PROFFIT et al, <i>Contemporary Orthodontics</i> (Second Ed.) Chapter 15, Mosby Inc, (October 1992), pp 470-533		
	87	REKOW et al., "CAD/CAM for Dental Restorations - Some of the Curious Challenges," <i>IEEE Transactions on Biomedical Engineering</i> , (April 1991) Vol. 38, No. 4, pp. 344-345.		
	88	REKOW et al., "Comparison of Three Data Acquisition Techniques for 3-D Tooth Surface Mapping," <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , (1991) Vol. 13, No. 1, pp. 344-345.		
	89	SCHROEDER et al., Eds. <i>The Visual Toolkit</i> , Prentice Hall PTR, New Jersey (1998) Chapters 6, 8 & 9, (pages 153-210, 309-354, and 355-428, respectively).		
ga	90	SINCLAIR, "The Readers' Corner," <i>Journal of Clinical Orthodontics</i> , Vol 26, No. 6, (June 1992) pp. 369-372		

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

(Use as many sheets as necessary)

Sheet	1	of	4
-------	---	----	---

Application Number	10/788,510
Filing Date	February 27, 2004
First Named Inventor	Muhammad Chishti
Art Unit	3732
Examiner Name	Wilson, John J.
Attorney Docket Number	018563-004920US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
92	AA	3,600,808	08-24-1971	Reeve	
	AB	4,975,052	12-04-1990	Spencer et al.	
	AC	5,130,064	07-14-1992	Smalley et al.	
	AD	5,328,362	07-12-1994	Watson et al.	
	AE	5,614,075	03-25-1997	Andre	
	AF	5,880,962	03-09-1999	Andersson et al.	
	AG	6,217,325	04-17-2001	Chishtī et al.	
	AH	6,402,707	06-11-2002	Ernst	
	AI	6,572,372	06-03-2003	Phan et al.	
	AJ	6,629,840	10-07-2003	Chishtī et al.	
	AK	6,705,863	03-16-2004	Phan et al.	
	AL	6,722,880	04-20-2004	Chishti et al.	
	AM	2003/0009252 A 1	01-09-2003	Pavlovskaja et al.	
	AN	2003/0139834 A1	07-24-2003	Nikolskiy et al.	
	AO	2003/0224311	12-04-2003	Cronauer	
92	AP	2004/0128010 A1	07-01-2004	Pavlovskaja et al.	
	AQ	2005/0055118 A1	03-10-2005	Nikolskiy et al.	

[illegible]Examiner
Signature

John Wilson

Date Considered

9/13/07

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/788,510		
		Filing Date	February 27, 2004		
		First Named Inventor	Muhammad Chishti		
		Art Unit	3732		
		Examiner Name	Wilson, John J.		
Sheet	2	of	4	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AR	"Important Tip About Wearing the Red White & Blue Active Clear Retainer System," Allesee Orthodontic Appliances-Pro Lab, 1 page.	<input type="checkbox"/>
gn	AS	"The Choice Is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for doctors, < http://ormco.com/aoa/applianceservices/RWB/doctor.html >, 5 pages (May 19, 2003).	<input type="checkbox"/>
gn	AT	"The Choice is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for patients, < http://ormco.com/aoa/applianceservices/RWB/patients.html >, 2 pages (May 19, 2003).	<input type="checkbox"/>
gn	AU	"The Choice Is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information, 6 pages (2003).	<input type="checkbox"/>
	AV	"The Red, White & Blue Way to Improve Your Smile!" Allesee Orthodontic Appliances-Pro Lab product information for patients, 2 pages.	<input type="checkbox"/>
	AW	"You May Be A Candidate For This Invisible No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for patients, 2 pages.	<input type="checkbox"/>
gn	AX	ALCANIZ, et al., "An Advanced System for the Simulation and Planning of Orthodontic Treatments," Karl Heinz Hohne and Ron Kikinis (eds.), <i>Visualization in Biomedical Computing, 4th Int'l. Conf., VBC '96, Hamburg, Germany, September 22-25 (1996)</i> , Springer-Verlag, pp. 511-520.	<input type="checkbox"/>
	AY	BARTELS, et al., <i>An Introduction to Splines for Use in Computer Graphics and Geometric Modeling</i> , Morgan Kaufmann Publishers, 1987, pp. 422-425.	<input type="checkbox"/>
	AZ	BLU, et al., "Linear interpolation revitalized", <i>IEEE Trans. Image Proc.</i> , 13(5):710-719 (May 2004).	<input type="checkbox"/>
gn	BA	Cardinal Industrial Finishes, Powder Coatings information posted at < http://www.cardinalpaint.com > on Aug. 25, 2000, 2 pages.	<input type="checkbox"/>
	BB	DuraClearTM product information, Allesee Orthodontic Appliances-Pro Lab, 1 page.	<input type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	9/13/07
--------------------	--------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,510
				Filing Date	February 27, 2004
				First Named Inventor	Muhammad Chishti
				Art Unit	3732
				Examiner Name	Wilson, John J.
Sheet	3	of	4	Attorney Docket Number	018563-004920US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
jm	BC	HIKAGE, "Integrated Orthodontic Management System for Virtual Three-Dimensional Computer Graphic Simulation and Optical Video Image Database for Diagnosis and Treatment Planning", <i>Journal of Japan Orthodontic Society</i> , February 1987, English translation, pp. 1-38, Japanese version, 46(2), pp. 248-269 (60 pages total).	<input type="checkbox"/>	
jm	BD	KOCHANNEK, "Interpolating Splines with Local Tension, Continuity and Bias Control", <i>Computer Graphics</i> , 18(3):33-41 (July 1984).	<input type="checkbox"/>	
	BE	MOLES, Randall C., "Correcting Mild Malalignments as Easy as One, Two, Three," AOA/Pro Corner, 2 pages.	<input type="checkbox"/>	
jm	BF	NAHOUM, "The Vacuum Formed Dental Contour Appliance," <i>N. Y. State Dent. J.</i> , 30(9):385-390 (November 1964).	<input type="checkbox"/>	
	BG	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dent. Today</i> , 9(8):20, 22-23 (October 1990).	<input type="checkbox"/>	
	BH	NISHIYAMA <i>et al.</i> , "A New Construction of Tooth Repositioner by LTV Vinyl Silicone Rubber," <i>J. Nihon Univ. Sch. Dent.</i> , 19(2):93-102 (1977).	<input type="checkbox"/>	
	BI	PINKHAM, "Foolish Concept Propels Technology," <i>Dentist</i> , January/February 1989, 3 pages total.	<input type="checkbox"/>	
	BJ	PINKHAM, "Inventor's CAD/CAM May Transform Dentistry," <i>Dentist</i> , September 1990, 3 pages total.	<input type="checkbox"/>	
	BK	PONITZ, "Invisible Retainers," <i>Am. J. Orthod.</i> , 59(3):266-272 (March 1971).	<input type="checkbox"/>	
	BL	PROCERA RESEARCH PROJECTS, "PROCERA Research Projects 1993 — Abstract Collection," 1993, pp. 3-28.	<input type="checkbox"/>	
jm	BM	RICHMOND <i>et al.</i> , "The Development of the PAR Index (Peer Assessment Rating): Reliability and Validity," <i>Eur. J. Orthod.</i> , 14:125-139 (1992).	<input type="checkbox"/>	

Examiner Signature	John Wilson	Date Considered	9/13/07
--------------------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				<i>Application Number</i>	10/788,510
				<i>Filing Date</i>	February 27, 2004
				<i>First Named Inventor</i>	Muhammad Chishti
				<i>Art Unit</i>	3732
				<i>Examiner Name</i>	Wilson, John J.
Sheet	4	of	4	<i>Attorney Docket Number</i>	018563-004920US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JW	BN	STURMAN, "Interactive Keyframe Animation of 3-D Articulated Models," Proceedings Graphics Interface '84, May-June 1984, pp. 35-40.	<input type="checkbox"/>
	BO	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-1. The D.P. concept and Implementation of Transparent Silicone Resin (Orthocon)," <i>Nippon Dental Review</i> , Vol. 452:61-74 (June 1980).	<input type="checkbox"/>
	BP	YOSHII, "Research on A New Orthodontic Appliance: The Dynamic Positioner (D.P.)-II. Th D.P. Manufacturing Procedure and Clinical Applications," <i>Nippon Dental Review</i> , 454:107-130 (August 1980).	<input type="checkbox"/>
	BQ	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III. The General Concept of the D.P. Method and its Therapeutic Effect, Part 1, Dental and Functional Reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , 457:146-164 (November 1980).	<input type="checkbox"/>
	BR	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.)-III- The General Concept of the D.P. Method and its Therapeutic Effect, Part 2. Skeletal Reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , 458:112-129 (December 1980).	<input type="checkbox"/>

Examiner Signature	John Wilson	Date Considered	9/13/07
-----------------------	-------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.